MAHAKAL INSTITUTEOF TECHNOLOGY AND MANAGEMENT   
COMPUTER SCIENCE AND ENGINEERING & MCA DEPARTMENT   
   
Assignment 4   
   
SUBJECT- CD SUBJECT CODE - CS 603   
   
Date of assignment 16/04/2024 Date of Submission: On or before 30/04/2024   
   
1. How Stack allocation strategy is different than Heap allocation strategy. Explain both of   
them along with their merits and demerits.   
2. Define flow graph. Explain how a program is converted in to a Flow Graph   
3. Explain in brief about different sources of optimization of Basic blocks with suitable   
example.   
4. Discuss Peephole optimization   
5. Discuss issues in design of Code Generator   
6. Write short note on   
 Type checking   
 Code Optimization   
 DAG representation of Basic Blocks,   
 Global Data Flow Aanalysis   
 CODE improving transformations   
   
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